

Exercise 4

1. Check that all the global (including mixed gravitational) anomalies match between SUSY QCD and its dual description in terms of constrained mesons and baryons for $F = N$, at the point in the quantum moduli space where $M = 0$, $B\bar{B} = -\Lambda^{2N}$.

2. When the dual description of SUSY QCD is IR free it has two more global $U(1)$ symmetries than the original UV theory does. Explain why and assign a consistent set of charges to the meson and dual quarks.